

L8 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN

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TITLE: \*\*\*Surface\*\*\* - \*\*\*active\*\*\* fluorinated alkyl  
sulfides

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PATENT ASSIGNEE(S): Pennwalt Corp.

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CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 2239709	A1	19730222	DE 1972-2239709	19720811
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CA 962281	A1	19750204	CA 1972-145564	19720623
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GB 1395955	A	19750529	GB 1972-35227	19720727
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NL 7210982	A	19730214	NL 1972-10982	19720811
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FR 2150116	A5	19730330	FR 1972-29239	19720811
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JP 48026714	A2	19730409	JP 1972-80040	19720811
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JP 57047187	B4	19821007		
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PRIORITY APPLN. INFO.: US 1971-171325 19710812

AB Eleven title compds., i.e. bis[2-[7-(trifluoromethyl)perfluorooctyl]ethylthiomethyl]methanol (I) [ \*\*\*40099-98-7\*\*\* ] and (F<sub>3</sub>C)<sub>2</sub>CF(CF<sub>2</sub>)<sub>n</sub>CH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>X [II; n = 4 or 6; X = CH<sub>2</sub>CH(OH)CH<sub>2</sub>OH, CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>H, CH<sub>2</sub>CH<sub>2</sub>NMe<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>,

4-pyridyl, 2-benzimidazolyl, 2-pyridimetyl, o-carboxyphenyl, or

3,5-dichloro-2-pyridyl] and their derivs., e.g. carbamates or

chloroacetates, were prepd. without olefin formation in 33-100% yield by

reaction of (F<sub>3</sub>C)<sub>2</sub>CF(CF<sub>2</sub>)<sub>n</sub>CH<sub>2</sub>CH<sub>2</sub>I (III) with (HSCH<sub>2</sub>)<sub>2</sub>CHOH (IV) and HSR,

resp., in the presence of NaOH in a polar solvent, e.g. EtOH. I and II

were partly used as \*\*\*surface\*\*\* - \*\*\*active\*\*\* agents and useful

as insecticides. Thus, IV was added to NaOH-EtOH, the mixt. heated 5-10

min at .sim.50.deg., added to III (n = 6) in EtOH, and the mixt. refluxed

1 hr to give 81% I.

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